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Code No: **PT42053C** 

## **R13**



## IV B.Tech II Semester Regular/Supplementary Examinations, April - 2018 MOBILE ADHOC & SENSOR NETWORKS

Time: 3 hours

Max. Marks: 70

Question paper consists of Part-A and Part-B

Answer ALL sub questions from Part-A

Answer any THREE questions from Part-B

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## PART-A (22 Marks)

1.	a)	Explain the issues in designing ad hoc networks.	[4]
	b)	Define multi casting.	[3]
	c)	List the major functions performed by TCP.	[4]
	d)	Mention the advantages of WSNs.	[4]
	e)	Describe the sensor node architecture with appropriate figure.	[4]
	f)	Mention the security requirements in ad-hoc networks.	[3]
		<u><b>PART-B</b></u> $(3x16 = 48 Marks)$	
2.	a)	Explain the applications of MANETs.	[8]
	b)	Discus about position based routing algorithms.	[8]
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3.	a)	Explain the various categories of broadcasting protocols.	[8]
	b)	Explain about data-transmission oriented geocast routing protocols.	[8]
4.	a)	Why TCP protocols used in wired network is not suitable for wireless networks?	
		Compare the different TCP protocols over ad hoc networks.	[8]
	b)	Draw the TCP header? Explain its fields.	[8]
5.	a)	Briefly explain the architecture of wireless senor networks.	[8]
	b)	Explain challenges and design issues of WSNs.	[8]
6.	a)	Explain about data centric routing and directed diffusion.	[8]
	b)	Differentiate ad hoc networks and sensor networks. Outline the features of WSN.	[8]
7.	a)	Explain about intrusion tolerant routing in wireless sensor networks.	[8]
/.	a) b)	Brief the problems affecting secure Ad Hoc routing in sensor networks.	[8]